

CLAIMS

1. A local telephony first network (10) containing a first jack (60), the first jack having two pairs of contact members, a first pair (65, 66) and a second pair (67, 68), **characterized in**

- that the corresponding contact members (65, 67) and (66, 68) of the first and second contact
5 pairs respectively have electrical connections between them in the case where no plug is inserted into the first jack and the electrical connections being broken when inserting a plug into the first jack, the contact members of the second contact pair (67, 68) of the first jack being connected to a second network or equipment, the local telephony first network comprising a special plug (70) insertable into the first jack and connected so that in the case where the special plug is inserted
10 into the first jack (60) there are no electrical connections between the corresponding members (65, 67) and (66, 68) of the first and second contact pairs respectively of the first jack (60), the contact members of the upper pair (65, 66) of the first jack being then connected to a third network or equipment through the special plug, or

- that the local first network comprises a special plug (70) insertable into the first jack and having
15 a built-in manual switch (120) or a built-in automatic switching unit (140) so that when the special plug is fitted into the first jack (60), the signals of the local first network (10) are routed either to a second or a third network or equipment equipment through the special plug.

2. A local telephony network according to claim 1, **characterized in** that the local telephony first network comprises a plurality of serially connected jacks (60, 61, 62, 63) including the
20 first jack, each jack of which having two pairs of contact members, a first pair (65, 66) and a second pair (67, 68), each contact member of the first pair of each one of the jacks being connected to the corresponding contact member of the second pair of the subsequent jack in the series, and each jack of which having electrical connections between corresponding contact members (65, 67) and (66, 68) of the first and second contact pairs respectively in the case where
25 no plug is inserted into the jack and the electrical connections being broken when inserting a plug into the jack.

3. A network according to claim 1, **characterized in** that the second network or equipment includes a public switched telephony network (PSTN) (30) and the third network or equipment includes special telephony equipment (50) connected to an access network (20).

30 4. A telephony connector plug (70) adapted to fit into telephony jacks, **characterized in** that the telephony connector plug has internal connections so that when fitted into the first jack (60) of a local telephony first network (10), the plug acts as a circuit breaker for signals normally connected between the network (10) and a second network or equipment, and in the same time reroutes these signals to a third network or equipment.

35 5. A telephony connector plug (70) according to claim 4, **characterized in** that the

telephony connector plug has a pair of electric contacts connected to the second network or equipment and a pair of other, not connected electric contacts and actuating means for breaking the electrical connection between corresponding pairs of electric contacts in a jack when fitting the telephony connected plug in a jack.

- 5 6. A telephony connector plug (110) adapted to fit into telephony jacks, **characterized in** that the telephony connector plug comprises a built-in manual switch (120) so that when the telephony connector plug is fitted into the first jack (60) of a local telephony first network (10), the signals of the local telephony network (10) are routed either to a second third network or equipment or to a third network or equipment depending on the position of the built-in manual
10 switch.

7. A telephony connector plug (130) adapted to fit into telephony jacks, **characterized in** that the telephony connector plug comprises an automatic switching unit (140) arranged so that when the telephony connector plug is fitted into the first jack (60) of a local telephony network (10), the signals of the local telephony network (10) are routed either to a second network or
15 equipment or a third network or equipment.

8. A telephony connector plug (70) according to claim 7, **characterized in** that the automatic switching unit (140) is arranged to route, when the telephony connector plug is fitted into the first jack (60) of a local telephony network (10), the signals of the local telephony network (10) to the second network or equipment including special telephony equipment (50)
20 connected to an access network (20) if there is a dial tone present at the input/output terminal of the special telephony equipment (50), or to the third network or equipment including a public switched telephony network (PSTN) (30), if a ringing signal is received from the third network or equipment.